IN THE CLAIMS

Please cancel claims 1 - 29. Please add claims 30 - 45, as follows:

Claims 1 - 29 (cancelled).

30. (new) A program code storage device, comprising:

a computer-readable storage medium; and

computer-readable program code, stored on the machine-readable storage medium, the machine-readable program code having instructions, which when executed cause a computing system to:

receive supply line information;

generate an inventory projection for a plurality of days based on the supply line information;

determine a calculation window within the plurality of days and verify that a next processing day is within the calculation window;

determine if a target inventory exists for the next processing day;

compare the target inventory for the next processing day with the inventory projection for a current day;

adjust the inventory projection to meet the target inventory for the next processing day by creating an adjusted inventory projection if there is a difference between the target inventory for the next processing day and the inventory projection for the current day.

31. (new) The program code storage device of claim 30, including instructions which when executed cause the computing system to:

determine a second processing day; and

verify the second processing day falls within the calculation window.

32. (new) The program code storage device of claim 31, including instructions which when executed cause the computing system to:

determine if a target inventory exists for the second processing day,

compare the target inventory for the second processing day to adjusted inventory projection, and

adjust the adjusted inventory projection to meet the target inventory for the second processing day.

33. (new) The program code storage device of claim 30, including instructions which when executed cause the computing system to:

determine if an excursion condition has occurred, the excursion condition being an inventory goal, and

verify that the next processing day is a valid receiving day.

34. (new) A program code storage device, comprising:

a computer-readable storage medium; and

computer-readable program code, stored on the machine-readable storage medium, the machine-readable program code having instructions, which when executed cause a computing system to:

receive supply line information;

generate an inventory projection for a plurality of days based on the supply line information;

set a minimum projected inventory value and a maximum projected inventory value;

determine if an excursion occurs, the excursion being where the inventory projection is below the projected inventory value or above the maximum projected inventory value; and

generate an inventory projection adjustment to minimize the excursion.

35. (new) The program code storage device of claim 34, including instructions which when executed cause the computing system to:

verify if a target inventory exists for a current processing day; and

adjust the inventory projection adjustment if the valid target inventory exists for the current processing day and the valid target inventory is different from the inventory projection adjustment.

36. (new) The program code storage device of claim 35, including instructions which when executed cause the computing system to:

determine if a second processing day is within a calculation window; and

terminate execution if the second processing day is outside the calculation window.

37. (new) A program code storage device, comprising:

a computer-readable storage medium; and

computer-readable program code, stored on the machine-readable storage medium, the machine-readable program code having instructions, which when executed cause a computing device to:

receive supply line information;

generate an inventory projection for a plurality of days based on the supply line information;

establish a minimum inventory projection goal and a maximum inventory projection goal;

determine a largest difference between the inventory projection and the minimum inventory projection goal within the plurality of days;

add the largest difference to the inventory projection for a current day to create an updated current day projection; and

recalculate the inventory projection for the plurality of days, utilizing the updated current day projection, to generate an updated inventory projection for the plurality of days.

38. (new) The program code storage device of claim 37, including instructions which when executed cause the computing device to:

determine if an excursion occurs, the excursion being where the updated inventory projection is below the projected inventory goal or above the maximum projected inventory goal; and

invoke a buffering mechanism if no excursion occurs to buffer the largest difference.

39. (new) The program code storage device of claim 37, including instructions which when executed cause the computing device to:

determine if an excursion occurs, the excursion being where the updated inventory projection is below the projected inventory goal or above the maximum projected inventory goal; and

executing an above maximum excursion handler if the excursion is above the maximum projected inventory goal.

40. (new) The program code storage device of claim 37, including instructions which when executed cause the computing device to:

determine if an excursion occurs, the excursion being where the updated inventory projection is below the projected inventory goal or above the maximum projected inventory goal; and

executing a below minimum aggregation mechanism if the updated inventory projection is below the projected inventory goal.

41. (new) A program code storage device, comprising:

a computer-readable storage medium; and

computer-readable program code, stored on the machine-readable storage medium, the machine-readable program code having instructions, which when executed cause a computing device to:

receive supply line information;

generate an inventory projection for a plurality of days based on the supply line information;

establish a minimum inventory projection goal and a maximum inventory projection goal for each of the plurality of days;

detect if an above maximum excursion occurs, the maximum excursion being when the inventory projection is above the maximum inventory projection goal on a first day;

calculate a first difference, the first difference being an amount the inventory projection is above the maximum inventory projection goal for the first day;

set a current processing day to the first day;

calculate a first largest difference between the inventory projection and the minimum inventory goal for the plurality of days; and

generate an inventory projection adjustment, where the inventory projection adjustment is a smallest value of 1) the first difference; 2) the first largest difference; and 3) an amount of inventory backlog.

42. (new) The program code storage device of claim 41, including instructions which when executed cause the computing device to:

terminate processing if the inventory projection adjustment is not greater than the first difference.

43. (new) The program code storage device of claim 41, including instructions which when executed cause the computing device to:

recalculate the inventory projection to create an updated inventory projection by subtracting the first difference if the inventory projection adjustment is equal to the first difference.

44. (new) The program code storage device of claim 43, including instructions which when executed cause the computing device to:

buffer the first difference in a buffering mechanism if no excursion occurs with the with the updated inventory projection. .

45. (new) The program code storage device of claim 43, including instructions which when executed cause the computing device to:

calculate a second difference, the second difference being a difference between the updated inventory projection and the maximum inventory goal;

calculate a second largest difference, the second largest difference between a

largest difference between the updated inventory projection and the minimum inventory goal;

select a smallest value of the inventory backlog, the second difference, and the second smallest difference; and

aggregate a smallest value of the inventory backlog, the first difference, and the first largest difference with a smallest value of the inventory backlog, the second difference, and the second largest difference to utilize in a future inventory projection.

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